

- ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCE CONCRETE": COMPLY WITH APPLICABLE PROVISIONS EXCEPT AS OTHERWISE INDICATED.
- EMPLOY ACCEPTABLE TESTING LABORATORY TO PERFORM MATERIALS EVALUATION, TESTING AND DESIGN OF CONCRETE MIXES.
- PERFORM SAMPLING AND TESTING DURING CONCRETE PLACEMENT, AS FOLLOWS: A. AIR CONTENT ASTM C 173, ONE FOR EACH SET OF COMPRESSIVE STRENGTH SPECIMENS, 6% MINIMUM ON ALL CONCRETE EXPOSED TO FREEZING OR THAWING. B. COMPRESSIVE STRENGTH ASTM C 39, ONE SET OF EACH 50 CU. YDS. OR FRACTION THEREOF EACH CLASS OF CONCRETE; ONE SPECIMEN TESTED AT 7 DAYS, ONE SPECIMEN TESTED AT 28 DAYS, AND ONE RETAINED FOR LATER
- TESTING IF REQUIRED. C. WHEN THE TOTAL QUANTITY OF GIVEN CLASS OF CONCRETE IS LESS THAN 50 CU. YDS. STRENGTH TESTS MAY BE WAIVED BY ENGINEER IF FIELD EXPERIENCE
- INDICATES EVIDENCE OF SATISFACTORY STRENGTH. D. TEST RESULTS WILL BE REPORTED IN WRITING TO ENGINEER OR GENERAL CONTRACTOR. CONTACT THE CONCRETE PRODUCER WITHIN 24 HOURS AFTER
- TESTS ARE MADE. CONCRETE FOR PAVEMENT, FOUNDATION, SLABS, WALKS, PATIOS, AND CURBS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 PSI FOR ALL
- EXTERIOR POURED CONCRETE. 5. MIX DESIGN MAY BE ADJUSTED WHEN MATERIAL CHARACTERISTICS, JOB CONDITIONS, WEATHER, TEST RESULTS OR OTHER CIRCUMSTANCES WARRANT. DO NOT USE
- REVISED CONCRETE MIXES UNTIL SUBMITTED TO AND ACCEPTED BY ENGINEER. PORTLAND CEMENT ASTM C 150, TYPE AS REQUIRED.
- ASTM C 33, EXCEPT LOCAL AGGREGATES OF PROVEN CURABILITY MAY BE USED WHEN ACCEPTABLE TO ENGINEER. USED EVENLY MIXED SIZES OF AGGREGATE UP TO ½" MINIMUM SIZE.
- WATER: DRINKABLE
- AIR-ENTRAINING ADMIXTURE: ASTM C 260.
- 10. WATER-REDUCING ADMIXTURE: ASTM C 494; TYPE AS REQUIRED TO SUIT PROJECT CONDITIONS. ONLY USE ADMIXTURES WHICH HAVE BEEN TESTED AND ACCEPTED IN MIX DESIGNS.
- 11. PROVIDE FORM MATERIALS WITH SUFFICIENT STABILITY TO WITHSTAND PRESSURE OF
- PLACED CONCRETE WITHOUT BOW OR DEFLECTION. 12. DEFORMED REINFORCING BARS: ASTM A 615, GRADE 60, UNLESS OTHERWISE
- 13. WELDED WIRE FABRIC: ASTM A 185.
- 14. JOB SITE MIXING: USE DRUM TYPE BATCH MACHINE MIXER, MIXING NOT LESS THAN 1-1/2 MINUTES FOR ONE CU. YD. OR SMALL CAPACITY. INCREASE MIXING TIME AT LEAST 15 SECONDS FOR EACH ADDITION CU. YD. OR FRACTION THEREOF.
- 15. READY MIX CONCRETE: ASTM C 94 16. CONSTRUCT FORM WORK SO THAT CONCRETE MEMBERS AND STRUCTURES ARE OF CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION.
- 17. CLEAN AND ADJUST FORMS PRIOR TO CONCRETE PLACEMENT. APPLY FORM RELEASE AGENTS OR WET FORMS AS REQUIRED. RETIGHTEN FORMS DURING CONCRETE PLACEMENT IF REQUIRED TO ELIMINATE LEAKS.
- 18. SATISFACTORY SOIL MATERIAL SHALL BE FREE OF CLAY, ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIAL VEGETABLE AND OTHER DELETERIOUS ORGANIC MATTER. SOIL SHALL CONSIST OF NONORGANIC, LOW PLASTIC (P1 20) MATERIAL.
- 19. SUB-BASE MATERIAL: SHALL BE NATURALLY OR ARTIFICIALLY GRADE MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE, CRUSHED SLAG, NATURAL OR CRUSHED SAND.
- 20. BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS.
- 21. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS.
- 22. FORM CONCRETE SUCH THAT FAVORABLE DRAINAGE OCCURS TO STORM DRAINS, STAIRWELL DRAINS, AND/OR PARKING LOTS. NO DRAINAGE SHOULD OCCUR TOWARDS THE FOUNDATION OF BUILDING WALLS
- 23. MINIMUM CONCRETE COVER SHALL BE 3" FOR REINFORCING STEEL IN ACCORDANCE WITH (ACI 318-83).
- STREET LINES PRIOR TO INSTALLING 24. WELDING, INCLUDING TACK WELDING, OF REINFORCED STEEL IS PROHIBITED WELDING OF REINFORCING STEEL WILL BE PERMITTED ONLY BY WRITTEN APPROVAL
 - 25. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ANCHOR BOLTS, CHAMFERS, AND OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS. 26. FOOTINGS SHALL BEAR ON UNDISTURBED MATERIAL. ANY UNSUITABLE MATERIAL
 - INDEPENDENT SOILS ENGINEER AT DIRECTION OF GENERAL CONTRACTOR BEFORE CONCRETE IS PLACED. 27. SOILS EXPOSED IN THE BASES OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHALL BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITIONS SUCH AS
 - DISTURBANCE, RAIN OR FREEZING. SURFACE RUNOFF SHALL NOT BE ALLOWED TO ENTER THE EXCAVATION. 28. PROVIDE CONSTRUCTION, ISOLATION AND CONTROL JOINTS AS INDICATED ON CIVIL OR

SHALL BE REMOVED. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED BY AN

- STRUCTURAL SHEETS. 29. ALL EXTERIOR CONCRETE SHALL BE FINISHED WITH A LIGHT BROOM FINISH EXCEPT FOR FLOOR SLABS WHICH SHALL HAVE A STEEL TROWEL FINISH PER NOTES AND DETAILS ON STRUCTURAL OR ARCHITECTURAL SHEETS
- 30. THE CONTRACTOR SHALL PROVIDE SPECIFICATIONS AND MANUFACTURERS DATA FOR CONCRETE SEALER, JOINT FILLER, AND CURING COMPOUND FOR ALL FLOOR SLABS. TO THE ENGINEER PRIOR TO INSTALLATION FOR APPROVAL
- 31. ALL SOFT, YIELDING OR OTHER UNSUITABLE MATERIALS ENCOUNTERED DURING ANY PHASE OF SUBGRADE CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL. THE REPLACEMENT MATERIAL SHALL FILL THE UNSTABLE AREA FOR THE ENTIRE DEPTH OF THE COMPACTED SUBGRADE AND MEET THE SUBGRADE COMPACTIONS REQUIREMENTS. THE SUBGRADE SHALL BE SHAPED TO THE TRUE LINES AND GRADE AS SHOWN ON THE PLANS.
- 32. THE SUBGRADE SHALL BE COMPACTED TO 95% LABORATORY DENSITY AS DETERMINED BY AASHTO METHOD T-99. 33. THE SUBGRADE AND FINISH PAVING SHALL BE TESTED BY AN APPROVED TESTING
- COMPANY AT THE DIRECTION OF THE GENERAL CONTRACTOR FOR UNIFORM SMOOTHNESS, DENSITY AND GRADE. 34. WHERE NOT SHOWN, CURB, SIDEWALK, AND RETAINING WALL EXPANSION JOINTS
- SHALL BE 30' o.c. AND CONTROL JOINTS 5' o.c. MAXIMUM SPACING. CONCRETE CURB EXPANSION JOINTS SHALL BE 50' o.c. MAXIMUM. CONTROL JOINTS IN CURB SHALL ALIGN WITH ADJACENT SIDEWALK WHERE APPLICABLE.

WESTFIELD FIRE DEPARTMENT PLAN SUBMITTAL AND REVIEW

THE WESTFIELD FIRE DEPARTMENT FIRE AND LIFE SAFETY DIVISION SHALL PERFORM A REVIEW OF ALL PERTINENT SITE PLANS, BUILDING PLANS, FIRE PROTECTION SYSTEM PLANS AND SPECIFICATIONS INCLUDING SPRINKLER, FIRE ALARM SYSTEMS AND HOOD SUPPRESSION SYSTEMS OF ANY PROJECT WITHIN THE BOUNDARIES OF THE WESTFIELD FIRE DEPARTMENT, IN ORDER TO DETERMINE WHETHER SUCH PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE RULES OF THE INDIANA FIRE PREVENTION AND BUILDING SAFETY COMMISSION, THE CITY OF WESTFIELD FIRE PREVENTION ORDINANCE AND ANY OTHER CODES, STANDARDS OR RULES THAT MAY APPLY. (WFPO 38-207).

A. PLANS SHALL BE SUBMITTED TO THE WESTFIELD FIRE DEPARTMENT FIRE AND LIFE SAFETY DIVISION IN A DIGITAL FORMAT AND HAVE AVAILABLE AT THE CITY OF WESTFIELD BUILDING AND PLANNING DEPARTMENTS TRADITIONAL 24"X36" PAPER FORM.

B. FIRE DEPARTMENT PLAN REVIEW WILL OCCUR IN THE FOLLOWING PHASES: SITE PLAN, CONSTRUCTION PLAN AND FIRE PROTECTION SYSTEMS PLAN. THIS REVIEW WILL RUN CONCURRENTLY WITH THE CITY PLAN REVIEW AND ANY ISSUES OR CORRECTIONS THAT NEED TO BE MADE TO THE PLANS SHALL BE COMPLETED BY THE DEVELOPER PRIOR TO APPROVAL.

PREMISES IDENTIFICATION: NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS; BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY, INCLUDING MONUMENT SIGNS. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. NUMBERS SHALL BE AS FOLLOWS;

A. COMMERCIAL / INDUSTRIAL 6-12-INCH NUMBER HEIGHT 1 1/2 INCH STROKE WIDTH MULTI- UNIT RESIDENTIAL 6-12-INCH NUMBER HEIGHT 1 ½ INCH STROKE WIDTH SINGLE FAMILY AND DUPLEX 4 -INCH NUMBER HEIGHT 1/4 INCH STROKE WIDTH D. ACCESS AND IDENTIFICATION DURING CONSTRUCTION: APPROVED FIRE APPARATUS ACCESS ROADWAYS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO ANY COMBUSTIBLE CONSTRUCTION OR STORAGE OF COMBUSTIBLE MATERIALS ON THE SITE. TEMPORARY ADDRESS SIGNAGE SHALL ALSO BE PROVIDED DURING CONSTRUCTION. (IFC 3310.1).

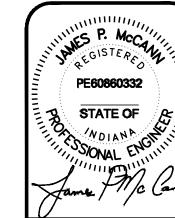
SITE NOTES

- 1. SITE INFORMATION WAS TAKEN FROM KEELER-WEBB ASS., DATED 07/06/2022. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING SITE CONDITIONS PRIOR TO STARTING WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING OR VERIFYING THAT ALL
- PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY, AND OR STATE AGENCIES PRIOR TO STARTING CONSTRUCTION. 3. DO NOT SCALE THE DRAWINGS, USE ALL DIMENSIONS, COORDINATES, ETC. PROVIDED
- FOR EXACT LOCATION OF PROPOSED IMPROVEMENT. ONLY USE PLAN CONTROL POINTS PROVIDED AS A BASIS FOR ANY CONSTRUCTION ENGINEERING OR SURVEYING PROPOSED IMPROVEMENTS.
- CONTRACTOR SHALL HIRE A LICENSED LAND SURVEYOR IN THE STATE OF PRACTICE TO PROVIDE HORIZONTAL AND VERTICAL CONTROL MATCHING THE PLAN CONTROL POINTS PROVIDED FOR CONSTRUCTION.
- 5. ALL CONTRACTORS SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION, CONTACT THE DESIGNER FOR ANY DISCREPANCIES OR QUESTIONS
- PRIOR TO INSTALLING ANY PROPOSED IMPROVEMENTS. 6. ALL SITE DEVELOPMENT DIMENSIONS SHALL BE TO FACE OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED. ALL DIMENSIONS FOR A BUILDING OR STRUCTURE SHALL BE FROM THE FACE OF BUILDING, UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE PARALLEL / PERPENDICULAR TO PROPOSED LINES, PROPERTY LINES, OR BUILDING LINES, UNLESS OTHERWISE NOTED
- 7. ALL EDGE OF PAVEMENT RADII ARE 5 FEET UNLESS OTHERWISE NOTED. ALL CURVES AND ARCS IN CURBS SHALL INTERSECT OTHER CURVES AND LINES AT POINTS OF TANGENCY TO APPEAR AS A SMOOTH TRANSITION UNLESS CLEARLY
- SHOWN AS A POINT OF INTERSECTION 8. THE PLUMBING CONTRACTOR SHALL CONSULT WITH THE LOCAL WATER COMPANY PROVIDE ALL MATERIALS AND LABOR, AND PAY ALL COSTS NOT BORNE BY THE
- LOCAL WATER COMPANY TO PROVIDE ANY NEW WATER SERVICE 9. THE PLUMBING CONTRACTOR SHALL CONSULT WITH THE LOCAL GAS COMPANY. PROVIDE ALL MATERIALS AND LABOR, AND PAY ALL COSTS NOT BORNE BY THE
- LOCAL GAS COMPANY TO PROVIDE ANY NEW GAS SERVICE. 10. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE LOCAL POWER COMPANY PROVIDE ALL MATERIALS AND LABOR, AND PAY ALL COSTS AND FEES NOT BORNE BY THE LOCAL POWER COMPANY TO PROVIDE ANY NEW UNDERGROUND ELECTRICAL
- 11. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE LOCAL TELEPHONE COMPANY, AND SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED WHICH ARE NOT BORNE BY THE TELEPHONE COMPANY TO PROVIDE ANY NEW TELEPHONE
- 12. DOMESTIC WATER LATERAL SERVICE SHALL BE TYPE 'K' COPPER/P.E. (OR APPROVED EQUAL PER LOCAL WATER COMPANY).
- 13. THE INCOMING WATER SERVICE SHALL BE INSTALLED WITH A MINIMUM OF 54" OF
- 14. ALL UTILITY SERVICE LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL THE LATEST APPLICABLE CODES AND TO EACH UTILITY'S AND/OR CITY'S STANDARDS.
- 15. USE COMPACTED GRANULAR FILL WHEN UTILITY LINES ARE PLACED UNDER WALKS AND DRIVEWAYS. 16. SOIL BORINGS HAVE NOT BEEN PERFORMED AT THIS TIME. PAVEMENT DESIGN IS
- BASED ON AN ASSUMED SOIL BEARING PRESSURE OF 1500 P.S.I. 17. PROVIDE SLEEVES FOR MECHANICAL WORK AS REQUIRED.
- 18. NOTIFY ENGINEER AT LEAST 1 DAY (24 HOURS) PRIOR TO PLACING ANY CONCRETE 19. AREAS BETWEEN CURBING, SIDEWALKS, PAVING AND BUILDING SHALL BE FILLED WITH 4" OF TOPSOIL SUITABLE FOR LANDSCAPING
- 20. SEE THIS SHEET FOR EXTERIOR CONCRETE SPECIFICATIONS. 21. SEE THIS SHEET FOR SANITARY SEWER LATERAL SPECIFICATIONS AND REQUIREMENTS. THIS STRUCTURE SHALL COMPLY WITH A.D.A. 2016. (SEE INDOT DETAILS)
- 23. IF ACTIVE UTILITIES ARE ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS, THE ENGINEER SHALL BE ADVISED BEFORE WORK IS CONTINUED
- 24. INACTIVE AND ABANDONED UTILITIES ENCOUNTERED IN EXCAVATING AND GRADING OPERATIONS SHALL BE REPORTED TO THE ENGINEER. THEY SHALL BE REMOVED. PLUGGED OR CAPPED AS DIRECTED BY THE UTILITY COMPANY AND THE ENGINEER
- 25. CONTRACTOR TO INSTALL KNOX-BOX AT A LOCATION ADJACENT TO MECH/SPRINKLER ROOM. COORDINATE LOCATION, TYPE AND STYLE WITH WESTFIELD FIRE DEPARTMENT.

- THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING: 1. THE AREA TO BE PAVED SHALL BE CLEARED OF ALL ROCK, DEBRIS, ROOTS AND VEGETATION. AN APPROVED SOIL STERILANT SHALL BE UTILIZED TO PREVENT THE GROWTH OF WEEDS
- 2. ALL SOFT, YIELDING OR OTHER UNSUITABLE MATERIALS ENCOUNTERED DURING ANY PHASE OF SUBGRADE CONSTRUCTION SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL. THE REPLACEMENT MATERIAL SHALL FILL THE UNSTABLE AREA FOR THE ENTIRE DEPTH OF THE COMPACTED SUBGRADE AND MEET THE SUBGRADE COMPACTION REQUIREMENTS. THE SUBGRADE SHALL BE SHAPED TO THE TRUE LINES AND GRADE AS SHOWN ON THE PLANE
- 3. THE SUBGRADE SHALL BE COMPACTED TO 95% LABORATORY DENSITY AS DETERMINED BY ASSHTO METHOD T-99.
- 4. THE SUBGRADE AND FINISH PAVING SHALL BE TESTED BY AN APPROVED TESTING COMPANY FOR UNIFORM SMOOTHNESS, DENSITY AND GRADE SLOPE PAVEMENT 1.0% (MIN.) TO INSURE PROPER SURFACE DRAINAGE.
- 6. THE HOT MIX ASPHALT BASED MAY BE PLACED DIRECTLY ON THE PREPARED SUBGRADE IN ONE LIFT FOR THE BASE COURSE TO THE REQUIRED COMPACTED THICKNESS AS SPECIFIED IN LOCAL STREET STANDARDS
- 7. THE HOT MIX ASPHALT BASE AND SURFACE SHALL BE PLACED IN ONE LIFT TO THE TRUE LINE AND GRADES AS SHOWN ON THE PLANS. THE PAVING MIXTURE SHALL BE PLACED AND COMPACTED AT A TEMPERATURE BETWEEN 250 F. (121 C) AND 300 F.
- 8. THE PAVING MIXTURE SHALL BE TRANSPORTED TO THE JOB SITE IN CLEAN WELL-COVERED TRUCKS WITH SMOOTH DUMP BEDS. THE BASE AND SURFACE MIXTURES ARE TO BE PLACED WITH SELF CONTAINED, POWER PROPELLED PAVERS CAPABLE OF PLACING THE MIX TO THE REQUIRED DIMENSIONS AS SHOWN ON THE
- 9. ASPHALT GRADE SHALL BE DETERMINED BY ITS ABILITY TO SATISFACTORY COAT THE AGGREGATE, RESIST RUTTING AND REMAIN STIFF DURING HIGH TEMPERATURES AND SUSTAIN FREEZE/THAW CYCLES IN ADDITION TO THE CONSIDERATIONS OF ANTICIPATED WEATHER, MIXING PROCESS AND CURING RATE.
- 10. SEE DETAILS 1 & 2 ON SHEET C6.1 FOR PAVEMENT CROSS-SECTIONS 11. ALL PROPOSED ASPHALT PAVEMENT AS SHOWN SHALL BE CONSTRUCTED IN COMPLIANCE WITH INDOT STANDARD SPECIFICATIONS, LATEST EDITION.
- 12. ALL PARKING STRIPING AND ADA AREAS SHALL BE MARKED WITH A DURABLE NONSHRINK, WHITE POINT TO BE APPROVED BY THE ENGINEER.

SANITARY SEWER LATERAL NOTES

- 1. SANITARY SEWER LATERAL CONSTRUCTION SHALL CONFORM TO THE CITIZENS WESTFIELD SEWER SPECIFICATIONS AND SHALL PREVAIL AS TO MATERIALS AND METHODS OF CONSTRUCTION.
- 2. SANITARY SEWER LATERALS SHOWN WERE DESIGNED WITH PVC PIPE IN ACCORDANCE WITH (SDR 26) AND SLOPE A MINIMUM OF 1 FEET/100 FEET.
- 3. ALL PVC JOINTS SHALL BE PREMOLDED, MANUFACTURED AND INSTALLED IN ACCORDANCE WITH ASTM C-425-6 OT.
- 4. WHERE WATER LINES AND SANITARY SEWER LINES RUN PARALLEL WITH ONE ANOTHER, A MINIMUM OF 10 FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED.
- 5. NO ROOF DRAINS. FOOTING DRAINS AND/OR SURFACE DRAINS MAY BE CONNECTED TO THE SANITARY SEWER SYSTEM INCLUDING TEMPORARY CONNECTIONS DURING CONSTRUCTION.
- 6. BUILDING SHALL BE SERVICED BY A 6" MINIMUM SANITARY SEWER LATERAL. THE ENDS SHALL BE PLUGGED AND SEALED WITH WATER-TIGHT PLASTIC DISC. WYES ARE TO BE TILTED UP 45 DEGREES FROM HORIZONTAL, WITH SUITABLE FITTINGS FOR ALL CHANGES IN DIRECTION.
- 7. CLEAN OUTS SEE DETAILS IN CITIZENS WESTFIELD STANDARDS SHALL BE PROVIDED EVERY 100 LINEAL FEET OF LATERAL AND AT EACH BEND GREATER THAN 45 DEGREES.





DRAWN BY: CHECKED BY: ALD PROJECT No. 2205-015

SHEET No.